

Numbers	
Number of people on the earth	~7 billion (7 x 10 <sup>9</sup> )
Number of people in the USA	~ 300 million (3 x 10 <sup>8</sup> )
Number of people in the state of Maryland	~ 5 million (5 x 10 <sup>6</sup> )
Number of students in a large	
state university	$\sim$ 30-40 thousand (3 x 10 <sup>4</sup> )

Macro Distances		
Circumference of the earth	~24,000 miles (1000 miles/ time zone at the equator)	
Radius of the earth*	$2/\pi x \ 10^7 \ m$	
Distance across the USA	~3000 miles	
Distance across DC	~10 miles	

Bio Scales	
Size of a typical animal cell	~10-20 microns (10 <sup>-5</sup> m)
Size of a bacterium, chloroplast, or mitochondrion	~1 micron (10 <sup>-6</sup> m)
Size of a medium-sized virus	~0.1 micron (10 <sup>-7</sup> m)
Thickness of a cell membrane	~5-10 nm (10 <sup>-8</sup> m)



















